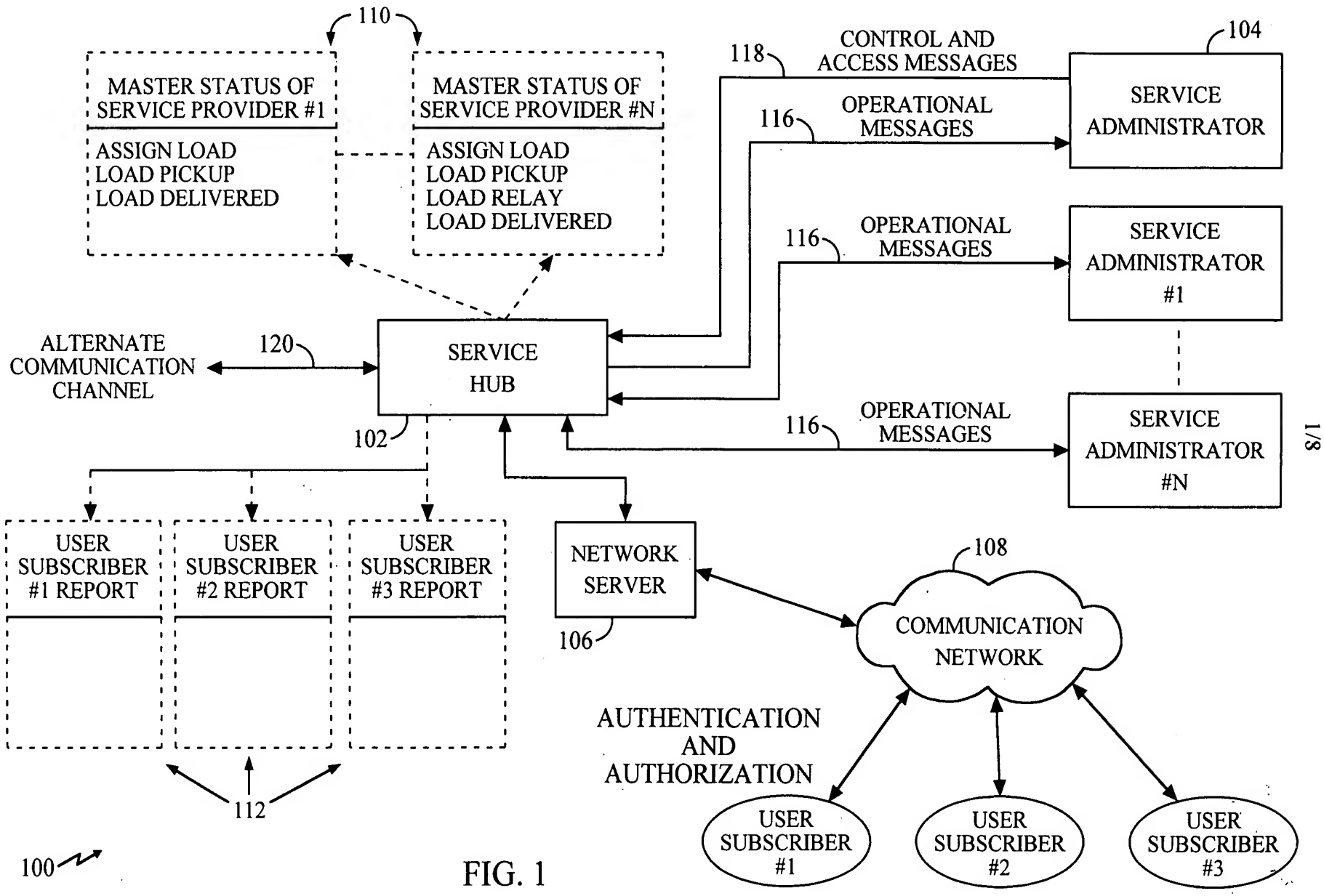
110
MASTER STATUS OF SERVICE PROVIDER #1
ASSIGN LOAD
LOAD PICKUP
LOAD DELIVERED
MASTER STATUS OF SERVICE PROVIDER #N
ASSIGN LOAD
LOAD PICKUP
LOAD RELAY
LOAD DELIVERED
118
CONTROL AND ACCESS MESSAGES
104
SERVICE ADMINISTRATOR
116
OPERATIONAL MESSAGES
SERVICE ADMINISTRATOR #1
SERVICE ADMINISTRATOR #N
ALTERNATE COMMUNICATION CHANNEL
120
SERVICE HUB
102
USER SUBSCRIBER #1 REPORT
USER SUBSCRIBER #2 REPORT
USER SUBSCRIBER #3 REPORT
NETWORK SERVER
106
108
COMMUNICATION NETWORK
AUTHENTICATION AND AUTHORIZATION
USER SUBSCRIBER #1
USER SUBSCRIBER #2
USER SUBSCRIBER #3
112
100

FIG. 1

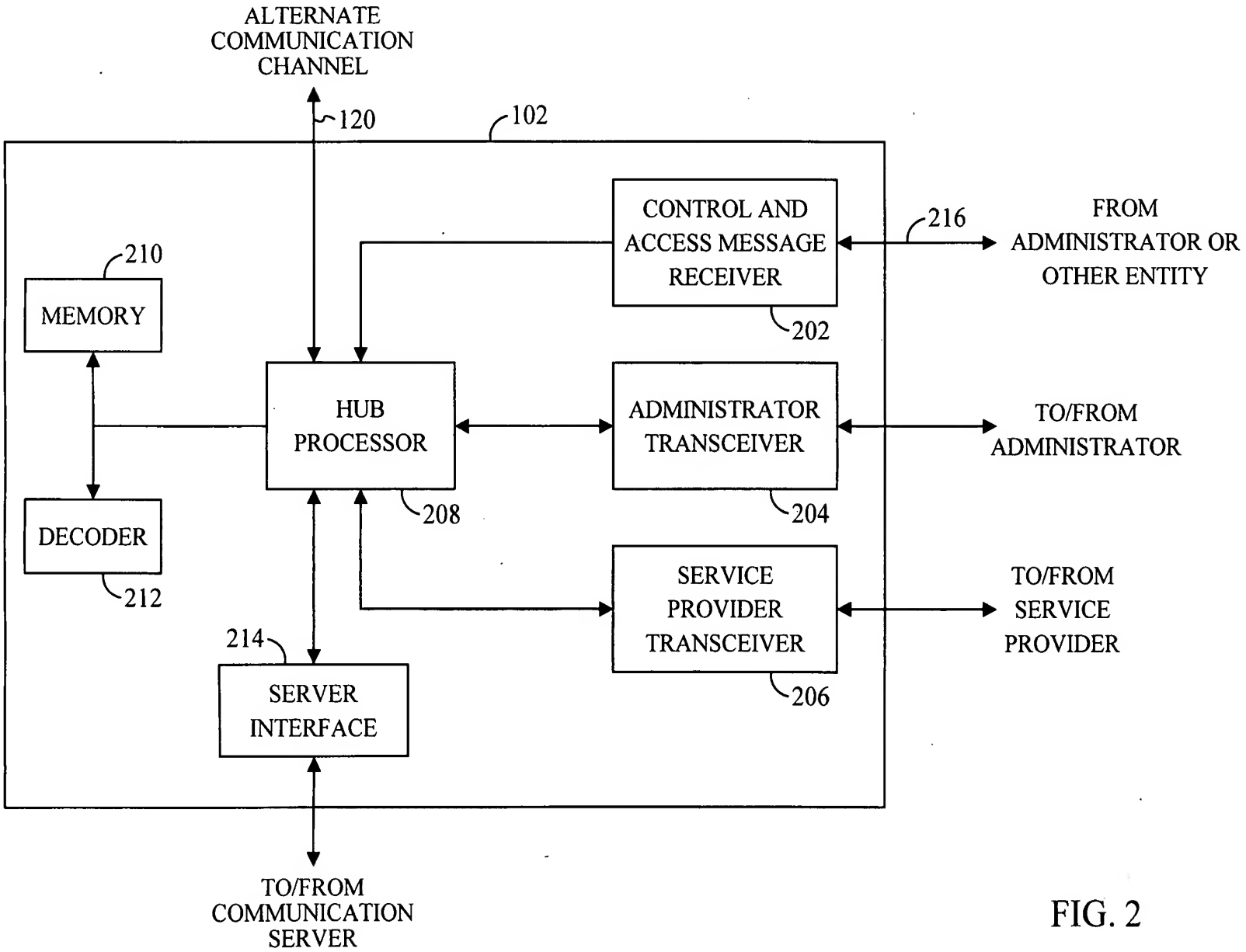
ALTERNATE COMMUNICATION CHANNEL
120
102
CONTROL AND ACCESS MESSAGE RECEIVER
216
FROM ADMINISTRATOR OR OTHER ENTITY
202
210
MEMORY
HUB PROCESSOR
ADMINISTRATOR TRANSCEIVER
TO/FROM ADMINISTRATOR
208
204
DECODER
212
SERVICE PROVIDER TRANSCEIVER
TO/FROM SERVICE PROVIDER
214
206
SERVER INTERFACE
TO/FROM COMMUNICATION SERVER

FIG. 2

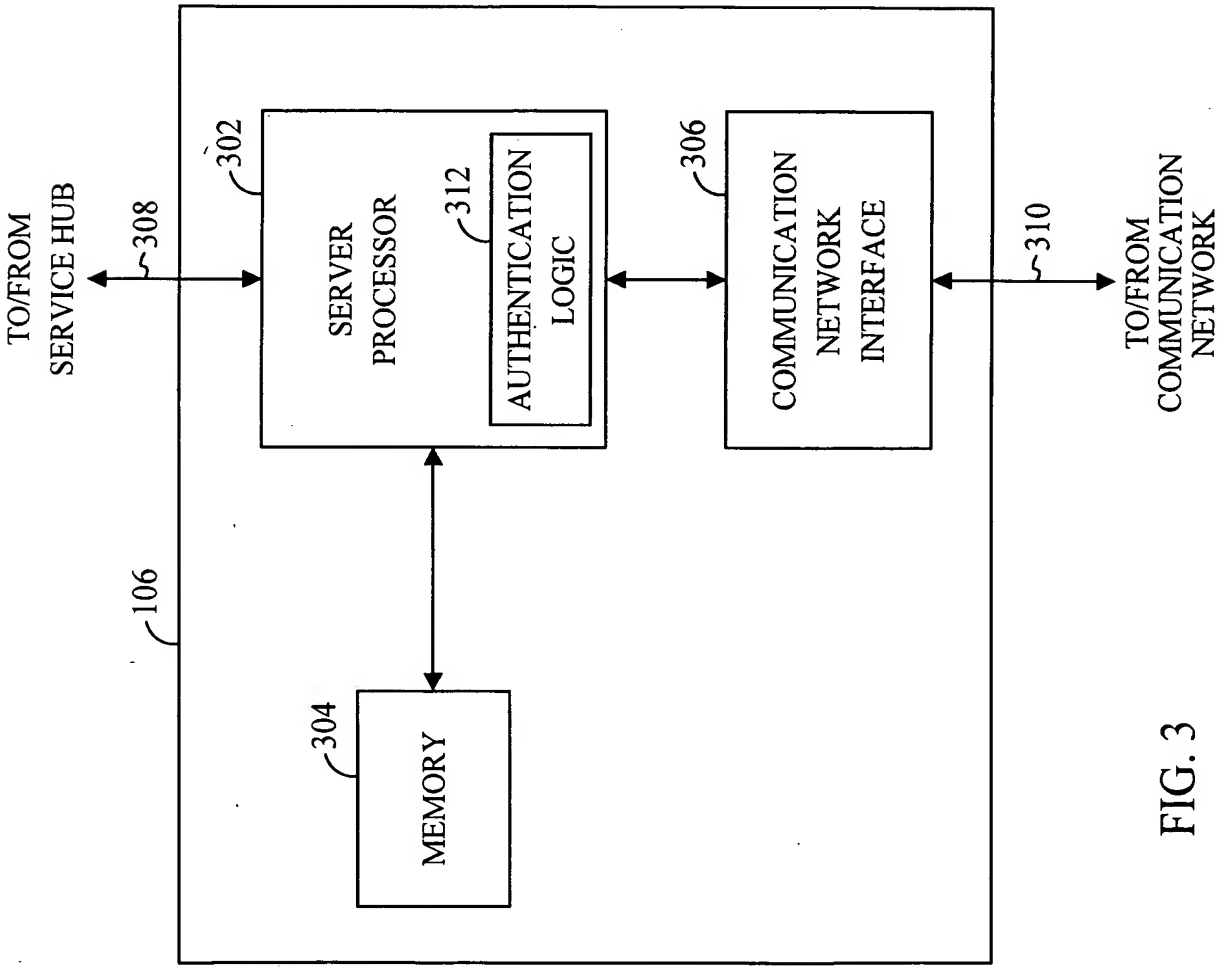
TO/FROM SERVICE HUB
308
302
SERVER PROCESSOR
312
AUTHENTICATION LOGIC
306
COMMUNICATION NETWORK INTERFACE
310
TO/FROM COMMUNICATION NETWORK
106
304
MEMORY

FIG. 3

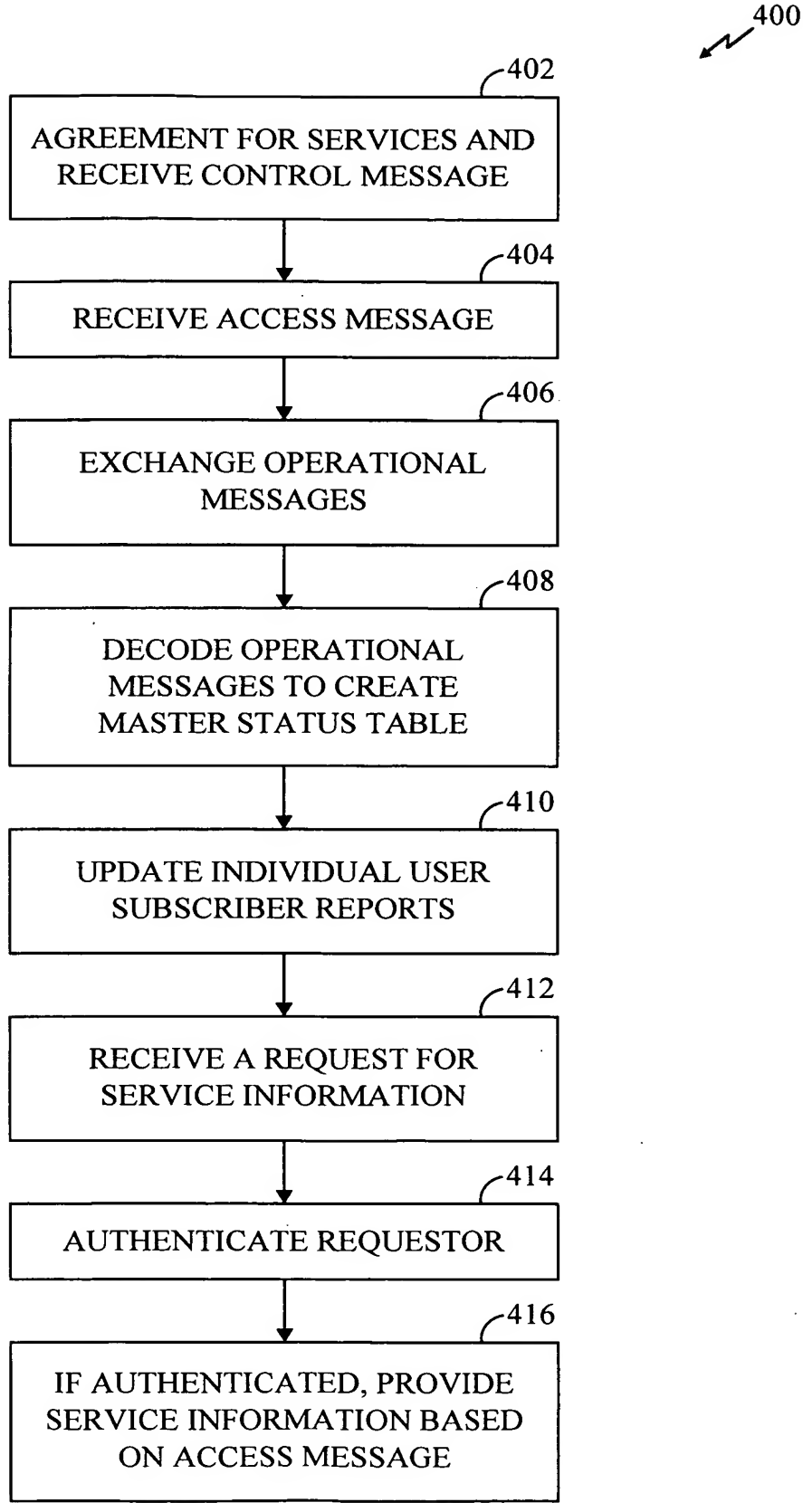

FIG. 4

1005057 - 040402

PARAMETER	CONTROL MESSAGE CONTENT
0	START OF CONTROL MESSAGE
1	ADMINISTRATOR IDENTIFIER
2	SERVICE TYPE IDENTIFIER
3	SERVICE PROVIDER IDENTIFIER
4	MACRO CODE (001)
5	MACRO CODE (003)
6	MACRO CODE (004)
7	N/A
8	MACRO CODE (002)
9	MACRO CODE (005)
X	END OF CONTROL MESSAGE

502
504
506
508
510
500
512

FIG. 5

1005587 - 040402

PARAMETER	ACCESS MESSAGE CONTENT
0	START OF ACCESS MESSAGE
1	ADMINISTRATOR IDENTIFIER 602
2	SERVICE TYPE IDENTIFIER 604
3	USER SUBSCRIBER IDENTIFIER 606
4	MACRO CODE 608
5	MACRO CODE (610)
6	MACRO CODE
7	USER SUBSCRIBER IDENTIFIER
8	MACRO CODE 612
9	MACRO CODE (614)
⋮	⋮
X	END OF ACCESS MESSAGE 616

600

FIG. 6

EP04405967.0/0404052

PARAMETER	OPERATIONAL MESSAGE CONTENT
0	START OF OPERATIONAL MESSAGE
1	ADMINISTRATOR IDENTIFIER 702
2	SERVICE TYPE IDENTIFIER 704
3	SERVICE PROVIDER IDENTIFIER 706
4	710 { MACRO CODE 708
5	710 { MACRO CODE
6	712 { SUBSCRIBER IDENTIFIER
7	712 { SUBSCRIBER IDENTIFIER
⋮	⋮
X	END OF OPERATIONAL MESSAGE 714

700

FIG. 7

20040827850100T

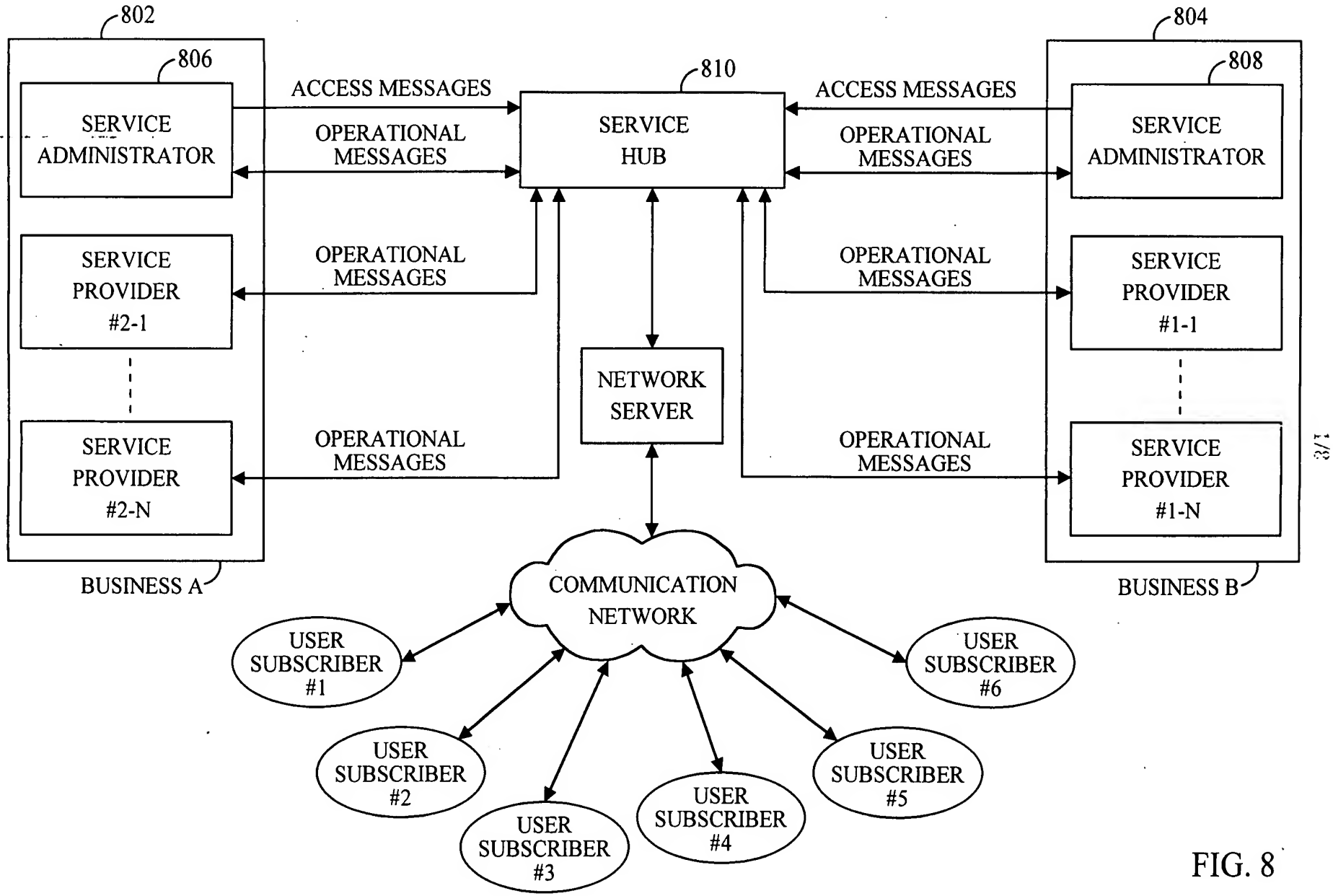

FIG. 8